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PATENT ABSTRACTS OF JAPAN

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(57) Abstract:

PROBLEM TO BE SOLVED: To switch automatically an oscillated frequency band only with data to a pre-scaler and a frequency divider by switching an inductor deciding an oscillation frequency with an output voltage of a comparator circuit inputting a voltage of a variable capacitor at one input and receiving a prescribed voltage at the other input.

SOLUTION: An output voltage V3 of a phase comparator 1 is applied to a variable capacitor 114 to vary an oscillated frequency by the change in the capacitance and a constant oscillated frequency is outputted. When the frequency division data of a control section are changed from one oscillated frequency band into another oscillated frequency band, the output of the phase comparator 1 is suddenly changed. For example, when the data are changed to provide a high voltage largely, the output of a processing 112 is high voltage to make a switching transistor (TR) 113 conductive thereby short-circuiting a strip line inductor 302 and decreasing the inductive component of the oscillation circuit and changing largely the oscillated frequency.

